

**Abstract**

An arrangement designed for radio phones for integrating a mechanical structure of the antenna head of the phone. The mechanical structures of an antenna and a speaker of the radio phone are integrated so that a given planar component radiates both radio waves and sound waves. The radiator component (310) comprises a layer (315, 316) of a material, a shape of which can be controlled by means of a voltage. The sound waves, i.e. fluctuation of the air pressure are thus generated by causing the thickness or position of the layer to fluctuate according to the control voltage. The antenna head of the radio phone becomes more compact than in the prior art, and it takes up less space because the antenna and the speaker utilize same structural elements.